



Are You SURE It's For Me?

Absolutely! No matter what, some day you will need to get a job. You may first go to college or get some other advanced education. But at some point you will enter the workforce. The bottom line is the GOOD JOBS of the future will go to people with skills. The skills, attitudes and behaviors needed by the working people of the future include:

- Academic proficiency in science, communications, mathematics, & technology; problem solving, & reading & understanding written material
- Personal Management Skills such as decision making, setting and meeting goals, responsibility, organization, flexibility and initiative
- Teamwork Qualities demonstrated in listening, responding, contributing and leading

HOW Do I Benefit?

- Your pathway prepares you so that you know what it takes to get a good job. It:
- Helps you see how school subjects relate to the world of work
 - Opens your mind to all kinds of career opportunities
 - Makes your classes more interesting
 - Shows you the education and skills needed to get the good jobs
 - Helps you figure out what you're good at
 - Makes your education fit YOU

WHAT is My Role?

- Do everything you can to focus on your future!
- Study hard and do your best in school and extracurricular activities
 - Take advantage of every opportunity to learn more about the real world through job shadowing, work experience, career fairs, and community speakers
 - Talk to your parents and other adults about their jobs
 - Go to school every day, on time, and with a good attitude—like a job
 - Talk to your counselors and teachers
 - Participate in career and college fairs

Submitted by: Judy King, So.Central STC Partnership

Future Educator's Academy

Career Focus: Educational Services

What is it? The First Step: The Future Educators Exploring Teaching Club

(FEET) offers a series of activities that include informational interviews, classroom observations, field-based teaching, and a college admission workshop. The Second Step: The Future Educators Academy (FEA) offers a series of recommended courses that could earn dual credit.

Salary Range: Starting salaries are set by local school boards and will vary from one school district to the next. Estimated Salary: \$28,000 - \$70,000

- JOB TITLES**
1. Early Childhood Teacher
 2. Elementary Teacher
 3. Middle/High School Teacher
 4. College Professor
 5. Guidance Counselor
 6. Special Educator
 7. School Administrator
 8. Technology Coordinator
 9. Human Resource Manager
 10. Corporate Trainer
 11. Para-Educator

Education Pathway High School Career Planning Course Sequence				
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English 9 (emphasis on Business/Tech Writing)	English 10	English 11	English Composition
Math	Algebra I	Intermediate Algebra	Algebra II	
Social Studies	World History	US History I (with unit Technology and Society)	US History II	Intro to Psychology
Science	Intro to Science	Biology	General Chemistry	Physics
Foreign Language	Foreign Language I	Foreign Language II	Foreign Language III	Advanced Foreign Language
Technical Core	IT & Me IT & Me Works	Intro to Graphic Design	Foundations of Education	Intro to Disabilities FEA Practicum
Elective Core	Child Growth & Development	Child Growth & Development	Oral Communication	Human Relations & the Organization

*College credit courses through NHCTC Project Running Start Program.
NOTE: Check with your guidance counselor to identify the comparable courses offered at your school.
For more information on how to implement this pathway in your school, contact Marsha Miller (603) 332-0925.

Postsecondary Schools that offer Teacher Certification Programs(s)

4-Year: Colby-Sawyer College, Daniel Webster College, Dartmouth College, Franklin Pierce College, Keene State College, New England College, Notre Dame College, Plymouth State College, Rivier College, Southern NH University, St. Anslem College, University of NH

2-Year: NHTI-Concord

Engineering

The Project Lead the Way (PLTW) pre-engineering curriculum serves as the engineering career pathway for New Hampshire. It focuses on enhancing students mathematics and science performance.

Career Focus: Engineering, Engineering Technology, Research, Manufacturing, Process and Systems Developmnt

What is it? Development of procedures and applications based on scientific and mathematical principles.

Engineering Pathway High School Career Planning Course Sequence				
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English	English	English	English
Math	Algebra I	Geometry	Algebra II	Pre-Calculus
Science	Physcial Science	Biology	Chemistry	Physics
Social Science	World History	U.S. History	Economics	Government
Pre-Engineering	Intro to Engineering Design	Digital Electronics	Principles of Engineering and Computer Integrated Mathematics	Engineering Design and Development
Modern Language	Modern Language	Modern Language	Modern Language	Modern Language
Electives	Electives	Electives	Electives	Electives

College credit available through agreements with NH Technical Institute and Rochester Institute of Technology.
NOTE: Check with your guidance counselor to identify the comparable courses offered at your school.
For more information on how to implement this pathway in your school, contact Jim Leon (603) 271-6954.

- JOB TITLES**
1. Engineer
 2. Engineering Tech
 3. Researcher
 4. Project Planning & Mgt
 5. Plant Managers

WHAT Is A Career Pathway?

A Career Pathway is a plan designed by **you, the student**, to make sure that what you learn each day in school is useful in your life. Your PATHWAY will help **you** put things in focus, giving **you** a better idea of what's out there in the world, what **you** want to do and what **you** need to be successful.

Hospitality and Tourism

An important aspect of this pathway is the diversity of careers represented including Culinary Arts, Travel and Tourism, Lodging Management, Convention Bureau/Conference Planning and Recreation, and Amusements and Attractions.

Career Focus: Resort Mgt/Operation, Property Management, Food Service

and Production, Sports and Recreation Management

What is it? Focuses on the diverse and rapidly growing field of Hospitality and Tourism, nationally and world-wide.

Salary Range: Operations: \$20,000 - \$40,000, Property Management: \$40,000 - \$70,000, Resort Management/Entrepreneurship: \$50,000 and up.

- JOB TITLES**
1. Hotel/Resort Management
 2. Food Service Management
 3. Chef/Culinary Arts
 4. Recreational Management
 5. Ski Resort Management
 6. Travel Tourism
 7. Marketing/Advertising
 8. Adventure Based Recreation

Hospitality and Tourism Pathway High School Career Planning Course Sequence				
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English 9	English 10	English 11	English 12 and/or College Comp I*
Math	Algebra I	Geometry	Algebra II	
Science	Earth Science	Biology	General ChemistryI	Physics
Social Studies	Modern World History	U.S. History	U.S. History	Economics/ Psychology
Foreign Language	Foreign Language I	Foreign Language II	Foreign Language III	Foreign Language IV
Technology	IT & ME	Information Processing	Information Technology Management	
Electives	Culinary Arts I Intro to Business	Culinary Arts II Marketing	Culinary Arts III Intro to Hospitality and Tourism	Baknig/Catering Property Management

NOTE: Check with your guidance counselor to identify the comparable courses offered at your school.
For more information on how to implement this pathway in your school, contact Kevin Shyne (603) 449-3406.

Surgical Technology

Career Pathways in: Health Sciences

Career Focus: Surgical Technology

What is it? Focuses on technology utilized in surgical procedures in operating rooms, delivery rooms, and sterile processing.

Salary Range: Technicians: \$25,000 - \$35,000, Nurses & Surgeon's Assistant: \$35,000 - \$75,000, Anesthesiologists and Surgeons: \$120,000 - \$150,000.

- JOB TITLES**
1. Surgical Technologist
 2. Medical Sales Representative
 3. Tissue/Organ Procurement & Transportation Technician
 4. Laser/Endoscopic Technician
 5. Materials Manager
 6. Anesthesia Technician
 7. Educator
 8. Surgical First Assistant
 9. Surgical Nurse
 10. Surgeon's Assistant
 11. Anesthesiologist/Surgeon

Surgical Technology Pathway High School Career Planning Course Sequence				
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English 9	English 10	English 11	English 12 and/or College Comp I*
Math	Algebra I	Geometry	Algebra II	Pre-Calculus or Calculus
Science	Intro to Life Sciences	Biology	Chemistry, Medical Terminology* Anatomy & Physiology*	Microbiology*AP or General Biology I* AP or General Chemistry I* Physics
Social Studies	World History	Government and or Ethics	U.S. History	Economics
Foreign Language	Foreign Language I	Foreign Language II	Foreign Language III	Foreign Language IV
Tech-nology	IT & Me	Computer Applications	Programming Logic* Database Design & Management	Programming I* Intro to C++*
Electives	Intro to Business	Ethics and Society	Communication for the Workplace Medical Law & Ethics*	Human Relations and the Organization Marketing*

*College credit courses through NH Community/Technical College Project Running Start Program.
NOTE: Check with your guidance counselor to identify the comparable courses offered at your school.
For more information on how to implement this pathway in your school, contact Kathleen Totten (603) 433-1964.
NOTE: The recommended sequence of courses includes the curriculum offered thru Health Sciences & Technologies and Health Occs Programs.

Manufacturing

Career Focus: Engineering, Engineering Technology, Manufacturing, Machine Tool Trades

What is it? Development and/or implementation of procedures and applications based on scientific and mathematical principles in a manufacturing setting.

- JOB TITLES**
1. Engineer
 2. Engineering Technician
 3. Machinist
 4. Tool and Dye Maker
 5. Machine Operator

Manufacturing Pathway High school Career Planning Course Sequence				
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English	English	English	English
Math	Algebra I	Geometry	Algebra II	Pre-Calculus
Science	Physcial Science	Biology	Chemistry	Physics
Social				
Science	World History	U.S. History	Economics	Government
Manufacturing Technology	CADD	Manufacturing Technology: Level I*	Manufacturing Technology: Level II*	Manufacturing Technology: Level III*
Modern Language	Modern Language	Manufacturing Technology: Level I*	Manufacturing Technology: Level II*	Manufacturing Technology: Level III*
Electives	Electives	Electives	Electives	Electives

*Training occurs at Regional Career and Technical Center.
NOTE: Check with your guidance counselor to identify the comparable courses offered at your school.
College credit available through agreements with NHCTC System at Laconia and Berlin campuses.
For more information on how to implement this pathway in your school, contact Jim Leon (603) 271-6954.

Law, Public Safety, & Security

The Law, Public Safety, & Security Patyway will be fully implemented during the fall of 2002-2003.

Career Focus: Criminal justice, legal, and protective services.

What is it? Planning, managing, and providing judicial, legal, and protective services and homeland security, including professional and technical support services.

Salary Range: Entry Level: \$12,000 - \$30,000, Degree: \$25,000 - \$50,000, Advance Degree: \$40,000 - \$100,000.

JOB TITLES
Criminal Justice & Corrections: Security Guard, Forensic Expert, Police Chief, Police Officer, Detective, Investigator, Sheriff, Deputy, Correction Officer & Jailer, Parole Officer, Rail & TRansit Police, Bailiff, US Marshall, Animal Control Officer, Park Ranger, Border Patrol
Law & Legal Public Services: Legislator, Legislative Aide, Judge, Magistrate, Lawyer, Law Clerk, Legal Assistant, Paralegal Personnel, Inspector & Compliance Officers, Court Reporter
Fire Protection: Dispatcher, Firefighter, Firefighter Supv, Captain, Chief, Fire Inspector, Forest Fire Fighter, Fire Investigator, EMT, Paramedic

Law, Public Safety, & Security High School Career Planning Course Sequence				
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	Freshman English	Sophomore English	American Literature Oral Communication(RS) Essay Writing	World Literature and Law College Writing*(RS)
Math	Algebra I	Geometry	Algebra II(RS)	Probability & Statistics*(RS)
Social Studies	World Geography	Western Civilization, Economics/Civics	Criminology(RS), U.S. History(RS)	Psychology(RS)
Science	Integrated Science I	Integrated Science II, Health Anatomy & Physiology*	Chemistry* or Biology or	Intro to Forensics Physics*
Foreign Language	Spanish I	Spanish II	Spanish III*	Spanish IV*
Technical Core	Computer Applications I*(RS)	Computer Applications II*(RS)	Photography Technology*(Crime Scene)	
Electives		Drawing & Painting* (Forensic Artist)	Fitness Training* Internship	Internship (At least 1 semester)
All students are required to do 40hours of community service. Required Course to receive Pathway Certificate of Completion are noted in bold letters. Recommended Courses noted by (*). (RS)=Running Start College Credit available through the NHCTC System. NOTE: Check with your guidance counselor to identify the comparable courses offered at your school. For more information on how to implement this pathway in your school, contact Judy King (603) 882-6923 x1807.				

Financial Services

Career Focus: Business and Finance - related fields

What is it? The pathway includes a program called the Academy of Finance (AOF). AOF is a nationally acclaimed, industry-validated curriculum model sponsored by the National Academy Foundation. The model includes finance specific curriculum and a paid inetrnship between

Brought to you by:



the student's junior and senior year of high school. For more info see www.naf.org.

Salary Range: \$30,000 - \$42,000 (entry-level).



JOB TITLES
1. Financial Manager 2. Financial Analyst 3. Bank Teller 4. Accounts Clerks 5. Accountant 6. Auditor 7. Insurance Adjuster 8. Bookkeeper 9. Loan Officer 10. Securities Broker 11. Retirement Planning Specialist 12. Claims Processor 13. Accounting Clerk 14. Real Estate Broker 15. Mutual Funds Clerk 16. Underwriter 17. Budget Analyst 18. Certified Financial Planner

Financial Services Pathway High School Career Planning Course Sequence				
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Generic Course Plans *Strategies for Success (career Course)9th & 10th grade	Economics Computer Applications	Accounting I Accounting II		
Specialized Course Plans i.e. Academy of Finance, National Academy Foundation		Banking and Credit Securities and Insurance Introduction to Finance	Fin Planning Int'l Finance	
*Course sequence is flexible. Some schools offer courses within another existing course. Ex.-Securities and Insurance may be offered in Financial Planning. NOTE: Check with your guidance counselor to identify the comparable courses offered at your school. For more information on how to implement this pathway in your school, contact Kathleen Totten (603) 433-1964.				

Information Technology

The need for a technically literate workforce cuts across all industries with the largest manufacturer to the smallest store relying on IT.

Career Focus: 1.Programming and Software, 2.Business Information Studies, 3.Network Systems and 4.Network Systems-Cisco, 5.Multimedia

What is it? 1.The design, development,implementation and maintenance of computer systems and software, requiring knowledge of computer operating systems, programming languages, and software development. 2.Planning, managing, and providing administrative support, information processing, accounting, and human resources management services and related management support services. 3&4.Network analysis, planning and implementation; includes design, installation, maintenance, and management of network systems. 5.The creation, design, and production of interactive multimedia products and services, the development of digitally generated or computer enhanced media used in business, training, entertainment, communications, and marketing.

JOB TITLES		
Career Focus: Programming & Software 1. Systems Analyst 2. Test Specialist 3. Programmer Analyst 4. Operating Systems Specialist 5. Senior Level Programmer 6. Software/Application Support 7. Software Designer 8. Database Software Technician Career Focus: Business Info Systems 1. Accountants 2. Auditors 3. Database Managers	4. Information Processing Specialist 5. Info Mgt Systems Manager 6. Hotel/Motel Manager 7. Restaurant Manager 8. Retail Manager 9. Manufacturing Manager 10.Small Business Entrepreneur 11.Human Resource Manager Career Focus:Network Systems Network Systems Cisco 1. LAN Technician 2. Communications Analyst 3. Hardware Installations Coordinator	4. Customer Service Coordinator 5. Telecommunications Technician 6. Network Administrator 7. Network Analyst 8. WAN Technician Career Focus: Multimedia 1. Imaging Specialist 2. Interactive Digital Media Specialist 3. Web Designer 4. Graphic Designer 5. Animator 6. Media Designer 7. Multimedia Technician 8. Visual Design Consultant

Salary Range: 1.Programming and Software: \$35,000 - \$90,000 2.Business Information Studies: \$28,000 - \$75,000 3&4.Network Systems and Network Systems-Cisco: \$30,000 - \$80,000 5.Multimedia: \$35,000 - \$85,000

Geographic Information Systems

Career Focus: Natural Resource and Environmental Management, City and Regional Planning, Governmental Operations, Real Estate Development and Planning.

What is it? Computer-based method to display, analyze, and manipulate spatial data. GIS uses large databases to display information as maps and other visuals.

Salary Range: Technical/Field Staff: \$30,000 - \$50,000, Technical/Government Management: \$45,000-\$75,000, Executive Director/Consultant: \$70,000 and up.

JOB TITLES
1. Field Technician 2. GIS Specialist 3. Cartographer 4. Natural Resources Specialist 5. City/Regional Planner 6. Forester/Surv/Environmentalist 7. Public Utilities Planner 8. Earth Research Scientist 9. Data/Information Management 10.University Research/Professor

Geographic Information Systems High School Career Planning Course Sequence				
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English 9 Technical English	English 10	English 11	English 12 and/or College Comp I*
Math	Algebra I	Geometry	Algebra II	Advanced Math
Science	Earth Sciences	Biology	Chemistry	Physics
Social Studies	World History or Geography	Government and/or Ethics	U.S. History	Historical Research or Economics
Foreign Language	Foreign Language I	Foreign Language II	Foreign Language III	Foreign Language IV
Technology	IT & ME	Introduction to Programming	Database Design & Management	Ob. Oriented Prog. w/Visual Basic
Electives	Intro to Business	Ethics & Society	Spatial Information Systems Technology I	Spatial Information Systems Technology II
NOTE: Check with your guidance counselor to identify the comparable courses offered at your school. For more information on how to implement this pathway in your school, contact Kevin Shyne (603) 449-3406.				



Biotechnology

What is the Biotechnology Pathway?

The biotechnology pathway focuses on preparing students for careers in the rapidly growing biotechnology industries. These industries include biomanufacturing, bioinformatics,

genomics and pharmaceuticals. Other related fields are agriculture, aquaculture, biomedical sciences, ethics and law, and forensics.

Career Focus: Discovery Research, Process Development & Biomanufacturing

What is it? Focuses on research, development or production in biotechnology companies

Salary Range: Technical Staff: \$30,000 - \$60,000, Technical Middle Management: \$50,000 - \$80,000, Executive, R&D: \$70,000 - \$100,000

Biotechnology Pathway High School Career Planning Course Sequence				
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English 9 Technical English	English 10	English 11	English Composition and/or College Composition I*
Math	Algebra I	Geometry	Algebra II	Pre-Calculus or Calculus
Social Studies	World History	Government &/or Ethics	US History	Economics
Science	Phyiscal Science	Biology	Chemistry	Microbiology*AP or General BiologyI*AP or General Chemistry I* Biotech Internship I*
Foreign Language	Foreign Language I	Foreign Language II	Foreign Language III	Foreign Language IV
Tech-nology	IT & Me	Intro to Programming with emphasis on data-base design and maint.	Programming Logic* Database Design & Management	Programming I* Intro to C++*
Electives	Intro to Business	Ethics & Society	Communication for the Workplace	Human Relations and the Organization
*College credit courses through NHCTC Project Running Start Program. NOTE: Check with your guidance counselor to identify the comparable courses offered at your school. For more information on how to implement this pathway in your school, contact Kathleen Totten (603)433-1964.				

DID YOU KNOW?? The fastest growing IT jobs in NH from 2000-2010 will be:

Computer Software Engineer, Apps **Computer Software Engineer, Sys Software**
Network Systems & Data Comm Analyst **Network & Computer Sys Administrator**
Computer Support Specialist **Database Administrators**

Information Technology High school Career Planning Course Sequence				
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
English	English 9 w/emphasis on Business/Technical Writing	English 10	English 11	CP Composition and Speech(1,5) English 12 (2,3) English 12 w/emphasis on oral presentation(4)
Math	Algebra I(1,3,4,5) Business Math(2)	Geometry(1,3,4,5) Math Applications(2)	Algebra II(1,3,4,5) Consumer Math(2)	Applied Logic(1,5) Personal Finance(2,3,4)
Social Science	World History I	U.S. History I w/unit on Technology and Society	U.S. History II (All) or American Studies (2,3,4,5)	Human Relations & the Organization
Science	Intro to Science	Biology	General Chemistry	Physics(1)
Foreign Language	Foreign Lang I(1,2,3,4) Spanish, French, German or LatinI (5)	Foreign LangII(1,2,3,4) Spanish, French, German or LatinII (5)	Foreign Lang III(1,5)	Advanced Foreign Language(1)
Technical Core	IT & ME IT & ME Works	Programming Logic(1,4) Database Design & Management(1,2) Computer Networking Technology I(3) Computer Networking II (3) Intro to Computer Networking(4) Intro to Graphic Design(5) Principles of Mktg(5)	Programming I(1) Web Programming I(1) Acctg Principles of Marketing(2) PC Install & Repair Hardware(3) PC Install & Repair Software(3) Cisco Level I/II (4) LAN Technologies(4) Intro to Multimedia(5) Intro to 3D Animation(5)	Java Script(1) Intro to C++(1) Intro to eCommerce(2) Intro Computer Info Assurance(2) LAN Management I(3) LAN ManagementII(3) Cisco Level III/IV (4) WAN Technologies(4) Sound Editing Video Production(5)
Electives	Intro to Business	Consumer Behavior	Oral Communication	Internship
The number in parens(#) indicates which Career Focus area each course is applicable to. If there is no number, the course applies to all Info Technology career areas. NOTE: Check with your guidance counselor to identify the comparable courses offered at your school. For more information on how to implement this pathway in your school, contact Marsha Miller (603) 332-0925.				